DXpedition News

Maldives - 8Q Carlo Amorati I4ALU returns to the DXpedition trail Dec. 28-Jan. 6, as **8Q7BX**. CW only on 7005, 14010, 21010, and 28010 kHz, listening up 1-5 kHz. QSL via his home address: Via Battistelli 10, I-40122, Bologna, Italy. Sunrise 0115Z; sunset 1300Z.

Somalia - T5 USMC Commander Peter Eaton KH6HBZ is currently in Somalia, complete with Kenwood TS-690, key, and antenna wire. He reports that several amateurs received permission to take their rigs to Somalia, forming the largest ham club in the country. He will probably be too busy to operate for a while, but will request operating permission as soon as possible. If he gets on the air, QSL via Ira Franklin K4YMQ, 1316 Colonial Way, Alabaster AL 35007. Sunrise 0300Z; sunset 1500Z.

Edited by Chod Harris VP2ML

The DX Bulletin

America's Premier Weekly Amateur Radio Publication

Navassa - KP1 Vance LePierre W5IJU is looking for some additional operators for a trip to Navassa March 26-April 3, 1993. This will be a full-bore operation, with amplifier, beams (including a 40-meter beam), RTTY, and more. Cost per operator will be about $2,000, plus transportation in and out of Jamaica. Contact Vance at 2618 McGregor Blvd., Fernandina Beach FL 32034.

Montserrat - VP2M Stu Stephens K8SJ will operate **VP2M/K8SJ** Feb. 5-17, 1993. All bands, mostly CW, 20-30 kHz up from the bottom of the bands. All contacts will receive a QSL card via the bureau; for a direct card, use Stu's home address: P. O. Box 266, Girard OH 44420.

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Shortly Noted

▪ **6Y/G3XAQ** Alan Ibbetson is running QRP from Jamaica (NA-097) until Dec. 21, 20-meter CW only. Try 14025 khz 1200Z+. QSL home address: 9 Palmars Cross Hill, Rough Common, Canterbury, Kent, England. (DXNS.)

▪ **3D2RW** is Ron Wright ZL1AMO, who was operating from Fiji. Try 7007 kHz at 1130Z. Ron may try to operate from Rotuma on this trip, with the same callsign. Remember that Ron listens below his CW transmitting frequency, even when sending UP, and he dislikes bureau QSL card requests. Home address: 28 Chorley Ave., Massey, Henderson, Auckland 1208, New Zealand.

▪ **DLØITU** will be aired until the end of December, with DF9LB, DJ7SW, DK7LA, and DL1FL operating. DOK hunters note that this is "ITU" DOK. Try 3530, 7030, 14030, 21030, and 28030 kHz on CW, and 3675, 7070, 14270, 21270, and 28570 khz on SSB. QSL via the bureau, or direct to Wolf-Dieter Schlueter DJ7SW, Hasselbusch 42, D-2302 Flintbek, Germany, for CW QSOs; and Wolfgang Dethefs DK7LA, Krokusweg 7, D-2382 Kropp, Germany, (1993 *Callbook*) for SSB contacts. (Thanks DXNL.)

▪ **5X5WR** has a special QSL route for the recent DJ6SI/DJ5RT operation: P. O. Box 122, W-8209 Schlossberg, Germany.

▪ SSB Nets: Check-ins: **14227**: (11,22Z) 9A1CAL Z21HD EL2PP 1Z9B; **14256:** (2330Z) VP8CLR (South Georgia); **21335**: (14Z) TN1AT 5X5WR S79KMB 5R8GW; **21234**: (18Z) FR5ZN.

▪ **RTTY: S21A** is expecting a PK232 soon, thanks to W4FRU and the IRDXA. Spots: **9K2KA** 14071 ARQ 0600Z; **3A2LZ** 14079 1240Z; **ZC4ST** 21083 1420Z; **TL8GM** 14083 1610Z; **C9RJJ** 21082 1735Z; **3C1EA** 21089 0915Z; **HKØDPA** 28086 1500Z; **BY1QH** 14090 0100Z.

▪ **Islands On The Air: K4FAF/V63** is active from Puluwat Island (OC-155) in Micronesia until Dec. 22. (DXNL.) **KE6UP/DU1** is active from the Luzon group (OC-042), until the end of the year. (DXNS.) Chris Taron **N1HRW** will be active from Bailey Island (NA-137) and Islesborough (NA-055) off the coast of Maine Dec. 31-Jan. 2, on 10, 15, and 20 meters, on the usual IOTA frequencies (14260, 21260, and 28460 kHz). QSL via home call: 24 Magnolia Ave., Manchester MA 01944. **ZS1DAS** will be active Dec. 15-19 from Dassen Island, a New One for IOTA. 40-10 meters, SSB, with CW on request. QSL via the bureau. (DXNL.) Bernhard Stefan DL2GAC sets off on his annual IOTA DXpedition early next year; see Page 2 for more information.

▪ **Correction**: Silvano Amenta's callsign is KB5GL; it is incorrectly typed in Issue 667 under San Andrés HKØ.

▪ **IRCs**: The DX Bulletin has some IRCs available in bundles of 50 for US$27.50, postage paid, MasterCard and Visa accepted. (These are **not** sorted to remove IRCs stamped on the wrong side or not stamped, nor to have the US IRCs pulled. They come directly from D44BC.)

Propagation

Forecast and Historical Data

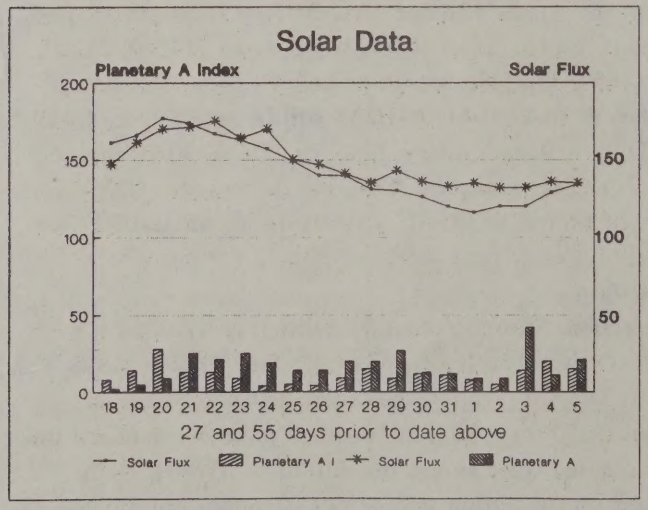
Day	Forecast	27 Days Before				55 Days Before			
December 1992		Date	Flux	A	K	Date	Flux	A	K
18	Above Normal	11/21	161	11/08	0	10/24	147	01/02	0
19	High Normal	11/22	166	10/14	3	10/25	161	05/05	1
20	Low Normal	11/23	177	25/28	3	10/26	170	11/09	3
21	High Normal	11/24	174	11/13	3	10/27	171	21/25	3
22	High Normal	11/25	167	12/13	3	10/28	175	20/21	2
23	High Normal	11/26	163	09/09	2	10/29	164	26/25	3
24	Above Normal	11/27	157	03/04	0	10/30	170	14/19	2
25	Above Normal	11/28	149	04/05	1	10/31	150	10/14	2
26	Above Normal	11/29	140	03/04	1	11/01	147	14/14	2
27	Above Normal	11/30	140	07/09	3	11/02	141	21/20	2
28	High Normal	12/01	131	17/15	2	11/03	135	17/20	2
29	High Normal	12/02	130	09/09	2	11/04	143	16/27	2
30	High Normal	12/03	126	14/12	2	11/05	136	12/13	2
31	High Normal	12/04	120	12/11	2	11/06	133	12/12	2
January 1993									
1	Above Normal	12/05	116	05/08	0	11/07	135	11/09	1
2	Above Normal	12/06	120	02/05	1	11/08	132	10/09	2
3	High Normal	12/07	120	11/14	2	11/09	132	24/42	3

Propagation Watch

Solar flux increased significantly, boosting maximum useable frequencies (MUFs) and lengthening band openings. Conditions on 10 meters were much better than expected for the ARRL 10-meter contest. The low bands have been particularly productive, as a quiet geomagnetic field has helped signal-to-noise ratios on 80 and 160 meters.

While solar activity will probably decline for the rest of the month, the current combination of relatively high flux and quiet conditions means good DXing on most bands. Make the most of these openings; Sunspot Cycle 22 can't keep this up much longer.

40-meter dawn opening: A couple of readers have commented on low-band contacts made long (a hour or two) after local sunrise. This is not unusual at this time of year, when the ultraviolet light that ionizes the atmosphere has to slant through much of the ionosphere to reach the low D layer. The low angle of the sun, the long winter nights, and moderate solar activity combine to produce a very slow ion build-up in the D layer, the layer that absorbs low-band signals. Continue to check the low bands, and especially 40 meters, well after local sunrise.



Far East Island DX Club

Eleven amateurs on Sakhalin Island (UAØF, AS-018) have formed a new DX club called the Far East Island DX Club. They can assist any amateur or group of amateurs who wish to make a DXpedition to either Sakhalin Island or the Kuril Islands. They can provide all necessary documentation, i.e., letters of invitation and amateur radio licenses. They can provide all services necessary including hotel accommodations, radio equipment, antennas, food, etc. Anyone wishing further information on the DX club and their services can contact Gary Pierson WW7Q, P. O. Box 978, Conner WA 98257.

Bernhard Stefan DL2GAC's 1993 IOTA DXpedition

Intrepid IOTA DXpeditioner Bernhard Stefan hits the trail again Jan. 10 to the end of April. He starts in India to Feb. 5, investigating future island activities in that country. He doesn't intend to get on the air from India this year. In early February, he goes to the Solomon Islands, with some very brief stops possible in the Maldives (8Q7CQ) and Singapore. After a couple of months island-hopping in the Solomons, he moves to Papua New Guinea in April, and then back to Europe. He writes:

"This year I will travel alone again. On most IOTA islands, there is no public power supply. I will carry solar panel and battery, but electricity is in short supply. To provide as many possible different stations an island contact and to give myself operating time to hunt interesting DX, I will enforce a strict 'one reference number (one island)/one contact' policy.

"For every serious IOTA hunter I expect to keep his record sheet ready and look before calling, 'Do I need this reference number or not?' If you have worked me in previous year on the same reference number, don't call me.

"Stations with more than one contact from the same reference number, regardless which band or year, will have to **wait for** their QSL **considerably longer**. The same applies for stations with **bad pile-up behaviour**.

"QSL Principles: 1) All contacts will be confirmed after my return home. 2) I believe in QSLing via the bureau and will confirm 100% of the contacts, regardless of whether I receive a QSL or not. 3) For those who don't have the patient to wait for the their card via the bureau, direct QSLing is possible, with sufficient return postage. 4) Donations are not required, but appreciated. 5) All QSLs at one time, please.

"During my absence, all incoming mail goes into a box until I start answering QSLs. I work the filled box from top to bottom, which results in a **last-in, first-out** policy, to reward stations with patience." His address: Aachstr. 25, W-7772 Uhldingen 1, Germany.

QSLs Received

- From managers: **6V6U** (K3IPK 4WKS), **H44GC** (K2PF 3 MOS), **VU7CVP** (VU2CVP 4KWS), **OY2H** (IØWDX 1 MO), **D2FGC** (OK1AJN 2MOS), **A22GH** (G3KMQ 3MOS), **JX3EX** (LA5NM, 2 MOS), **HC8A** (WV7Y 2 WKS), **6W6/WB2P** (WB2P 3 WKS), **5T5CJ** (W4BAA 2 WKS), **VP2EX** (N6DLU 1 MO), **8P9HT** (K4BAI 1 WK), **OD5/SP7LSE** (SP7LSE 2 WKS).
- Direct: **9A2MP** 4MOS, **TU4EC** 3WKS, **7P8SR** 1 MO.

B • A • N • D • P • A • S • S

*Key to Bandpass: Callsign, frequency, UTC, day of the month, state. * = long path. P = packet.*
All "portable" calls listed with country of operation first, regardless of format used on the air.

S	M	T	W	T	F	S
29	30	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	1	2

RTTY

3D2RW	21089	2338	8	FL
BY1QH	14091	0125	6	ID
DU1RP	21084	2326	9	FL
FO5IW	14083	0125	12	FL
VP8BFH	14082	0126	9	FL
VP8CFM	14085	0015	9	CA
ZK1AJA	21085	2241	12	FL
ZK2XI	21089	1806	5	ID

160 Meters

4X4NJ	1831	0428	4	AL
CT1AOZ	1830	0244	5	WV
GI3OQR	1832	0132	2	NH
HFØPOL	1833	0238	8	AL
HH2PK	1830	0705	5	WV
OD5/ HB9AMO	1831	0432	3	NH
S79S	1832	0152	3	MA
TZ6VV	1827	2210	3	MA

80 Meters

4N4ELB	3502	0143	12	FL
BV2DJ	3506	1522	5	ID
C9RJJ	3511	0310	5	IA
EA8AB	3507	0118	10	FL
EA9EA	3519	2349	27	VA
JA9BOH *	3501	2142	3	MA
LY2DIP	3509	0115	9	FL
LY2ZO	3511	2258	7	FL
PYØFF	3501	2123	6	MA
S59KAB	3501	0343	2	WV
SV9BAI	3503	0109	3	AL
UAØZCY	3509	1236	7	AL
UA2FCB	3509	0045	4	AL
UI8BAA	3508	1217	4	AL
VK6HD *	3503	2120	6	MA
VP8GAV	3501	0410	7	IA
YB6AVE *	3511	2153	3	MA
YL1XX	3503	0101	4	AL
ZS4TX	3509	0308	5	KS

75 Meters

4N7M	3791	0014	1	MA
9M2AX *	3800	2230	6	MA
9M8PV *	3804	2152	5	MA
JA6XMM *	3800	2200	6	MA
VK6LK *	3798	2106	5	MA
XU3UN	3799	1512	1	CA
YO5ODE	3791	0145	6	MA
ZS1RL	3798	0335	5	MN

40 Meters

3B8CF	7005	0203	9	FL
3D2RW	7006	1123	7	VA
3DAØBK	7007	0255	10	FL
3W4VL	7005	1610	11	CA
3XØHNU	7002	0749	2	WI
4O4D	7006	0211	3	NC
4U1WB	7004	0112	12	FL
7Q7LA	7004	1610	6	ID
7Q7XX	7004	0225	4	MN
9M2AX	7010	1230	4	AL
BV4CT	7015	1431	8	CA
C31LL	7003	2246	7	FL
C9RJJ	7008	0346	5	CO
E28DX	7010	1447	12	CA
EA6EJ	7015	2316	5	VA
ES1WN	7013	0134	9	FL
FW/Y58IO	7008	0640	10	ID
FW/Y58IO	7003	1612	11	CA
H44/ W3HVN	7004	1213	2	AL
HJØVGJ	7007	0207	6	FL
JT1CS	7003	2300	10	FL
OA4BCZ	7008	1057	10	FL
OD5/ SP7LSE	7011	0123	9	FL
OD5/ SP1MHV	7010	2340	7	FL
P29DK	7027	1238	4	WI
RL7LW	7009	1242	3	AL
T32VU	7002	0545	4	MA
TA8FG	7002	2256	10	FL
TR8GR	7015	225	7	IA
TZ6VV	7055	0715	5	CA
UF6FAL	7010	1320	4	IA
UI8BAA	7011	1209	3	AL
UJ8JI	7003	1147	7	FL
UJ8JMM	7008	1217	4	VA
UO5ODX	7011	2124	6	FL
V85AA	7001	1441	5	ID
VP8GAV	7005	0515	9	CA
VQ9RB	7002	1237	7	FL
VU2/ SP6WM	7009	1519	9	ID
VU2TEC	7001	0204	6	FL
YB3OSE	7009	1155	3	IA
Z21HS	7005	0340	4	IA
Z21HS	7002	1556	5	ID
ZA1O	7011	0155	7	FL

30 Meters

ZK1AZY	10104	1138	30	FL
7P8SR	10107	0400	3	KS
OD5/ SP7LSE	10105	2317	9	FL
T32VU	10104	0816	6	CA
TA2BK	10104	2244	2	VA
TF3CW	10101	2258	5	NH
ZA1J	10102	2115	6	FL

20 Meter CW

4K1YAR	14019	0214	2	VA
4S7WP	14024	2300	3	CA
5NØSKO	14040	0555	5	MA
5Z4TT	14007	2110	7	IA
6W1AE	14003	2250	3	CA
6W1EX	14023	0033	5	VA
7P8SR	14029	0510	2	KS
9J2BO	14028	1930	5	MA
9M2AX	14026	0013	11	FL
9M2NA	14010	2318	2	MI
9X5AB	14019	2005	7	IA
A71AL/ SP5EXA	14022	1833	8	ID
C9RJJ	14022	2143	6	FL
EA9UK	14027	0030	7	MA
FR5GG	14018	1715	6	ID
HS1E	14017	1610	9	ID
J28BF *	14025	1535	6	CA
JU83ØC	14010	1529	4	CA
UAØYO	14002	0120	3	MN
UM8QDX	14022	0214	30	MI
VK6BEP	14003	0252	3	CO
VP8VN	14002	1250	3	MI
VQ9AC	14022	0120	8	GA
VU2JNA *	14011	1459	5	CO
XU7VK	14007	1400	3	MA
ZD8LII	14018	0035	6	CA
ZK1AZY	21025	2151	6	FL
ZP6CW	14031	2341	6	GA

20 Meter SSB

9K2YA	14172	1440	5	CO
9K2ZZ	14201	0035	4	IA
A41KJ	14195	1300	5	IA
D2EL	14189	0129	5	NC
OY1HJ	14253	1134	3	NJ
VP8CLR	14256	0235	8	CA

17 Meter CW

C31LBB	18073	1545	5	KS
C31LL	18080	1547	1	WI
FR5GG	18072	1710	7	MN
OX3CS	18079	2001	7	FL
T32VU	18074	2220	5	GA
VP8GAV	18071	0127	11	FL

17 Meter SSB

TU4EG	18167	2332	4	CA

15 Meter CW

3D2RW	21027	2300	8	FL
3XØHNU	21010	1623	4	ID
9X5HG	21010	1435	2	IA
A35JE	21026	1805	5	CA
C53GQ	21025	2230	5	GA
CP6RP	21020	2337	9	FL
EA8QJ	21030	1805	5	CA
HJØVGJ	21027	1953	5	NH
JW5NM	21030	2036	4	NH
T32VU	21026	2327	12	FL
VS6BG	21021	0006	11	FL
XQØYAF	21001	1645	6	IL
ZA1M	21015	1305	3	MI
ZD7AWK	21020	2058	6	NC
ZD8RM	21021	1523	10	ID
ZK1AJM	21007	2333	12	FL

15 Meter SSB

3XØHNU	21260	1746	5	WI
5R8DG	21260	1800	11	CA
5V5TS	21245	1620	7	MN
6W4/ TL8TM	21303	2017	10	NY
7P8SR	21355	2005	5	NJ
7Q7JL	21233	1906	1	WI
7Q7RM	21355	1954	5	NJ
EP2MHB	21301	1233	3	MD
KHØAC	21260	2255	4	WI
S92SS	21263	2150	5	GA
V51GB	21283	1940	4	ID
Z21JE	21355	1830	10	CA

12 Meter CW

5R8GW	24898	1334	2	NS
7Q7XX	24895	1508	4	WV
C53GQ	24893	1609	5	VA
T32VU	24905	2125	5	VA
TA2BK	24896	1444	4	WV
UA2FEK	24915	1425	2	VA
VK6HG	24904	1210	3	NH
XQØYAF	24900	2105	1	VA

12 Meter SSB

5NØHBK	24940	1530	2	MN
9K2MU	24945	1355	2	NS
9K2WA	24967	1342	7	VA
J28BG	24945	1356	2	NS
J88AQ	24961	2137	7	CA
TZ6NU	24960	1543	5	CA
Z21AV	24973	1555	2	MN
ZS1ACY	24966	1645	9	ID

10 Meter CW

4N5JA	28019	1437	1	NB
5U7M	28035	1218	12	FL
7Q7RM	28027	1856	6	WV
C53GQ	28030	2120	5	CA
FR5DD	28007	1440	3	IA
P29KH	28032	2346	9	FL
XQØYAF	28010	2008	2	NH
ZD8RM	28024	1619	9	CA

10 Meter SSB

4N5JA	28495	1450	7	VA
5B4JE	28495	1425	3	IA
5T5EV	28450	1930	11	CA
7X2DG	28512	1410	7	IA
9K2YF	28492	1208	5	ME
A71BV	28480	1240	27	ME
D2/N6QHO	28475	1656	6	IL
D2EL	28476	1311	5	ME
EA6VS	28482	1640	5	CA
EA9IB	28487	1642	5	CA
FR5DX	28490	1520	7	IA
HH2PK	28495	1709	6	ME
J28BG	28477	1257	2	ME
TZ6RM	28490	1719	2	CA
TZ6VV	28434	1415	7	IA
VP8VN	28460	1718	6	ME
VR6BX	28456	2301	3	MD
ZA1BM	28485	1345	3	MD
ZS6BR *	28504	0542	13	CA

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Current and Future DXpeditions

(Changes and hot info in **boldface**.)

DXCC Country	Prefix	Callsign	Dates	Issue
Antarctica	DL1KVC/P		14246 17-1900Z	I664
Antigua	V2/	VE3BW	Jan. 1-29	I664
Aruba	P4/	W1EKT	Jan. 11-18	I667
Bahamas	**C6**	**C6AGN**	**Dec. 15-Jan. 11**	**I667**
Baker, Howland	KH1	/K9AJ	Jan. 26+	I664
Bangladesh	**S2**	**S21ZG**	**20M CW now**	**I667**
Barbados	8P	8P9DX	Jan. 23-Feb. 6	I667
Crozet	FT	FT4WD	soon	I664
Desecheo	KP5	NØTG	Dec. 28-Jan. 4	I666
Fiji	3D	SMØs	Dec. 29-Jan. 15	I667
		3D2RW	**now**	**I668**
Ivory Coast	**TU**	**TU4SR**	**to Dec. 21**	**I665/6**
Jamaica	**6Y5/**	**G3XAQ**	**to Dec. 21**	**I668**
Kingman Reef	KH5	NØAFW/	late Feb.	I666
Maldives	**8Q**	**8Q7BX**	**Dec. 28-Jan. 6**	**I668**
Marshall Islands	V7	V73S/B	Jan. 8-15	I667
Minami Torishima		JA9IPX/JD1	to Jan. 14	I659
Montserrat	**VP2M/K8SJ**		**Feb. 5-17**	**I668**
Navassa	**KP1**	**W5IJU**	**Mar. 26-Apr. 3**	**I668**
New Caledonia	**FK/**	**Ys**	**December**	**I661**
Rwanda	9X	9X5AB	now active	I662
St. Kitts	**V4**	**V47FV**	**Dec. 19-Jan. 5**	**I667**
San Andrés	HKØ/	AA5AU, KB5GL	Feb. 27+	I667
São Tomé	S9	S92SS	now active	I665
Singapore	9V	9V1XE	to Dec. 31	I659
		9V1YU	15M 15-1700Z	I661
Somalia	**T5**	**T5CB**	**Dec. 16-31**	**I666**
		KH6HBZ	**Soon?**	**I668**
Western Samoa	**5W**	**SMØs**	**Dec. 17-28**	**I667**

Operating Events and DX Gatherings

Dates	Event	Reference:
Jan. 2-3, 1993	ARRL RTTY Roundup	QST
Jan. 8-10	Japan Low-Band CW Test	I667
Jan. 16-17	Hungarian DX Test	CQ
Jan. 30-31	Belgium SSB Contest	I667
Jan. 29-31	CQWW 160-Meter CW test	CQ
Feb. 13-14	Spanish RTTY Contest	CQ
Feb. 20-21	ARRL CW DX Contest	QST
Mar. 6-7	ARRL SSB DX Test	QST

Contributors

This Issue of The DX Bulletin would not have been possible without the invaluable assistance of the following: KT7H, SESC, AK1E, DL2GAC, DXNL, DXNS, K2AJY, K4BAI, K4GLU, K4IQJ, K4LNA, K6IR, K6LEB, K6MJ, K8JLF, K8OQL, KA1MUY, KA7T, KB4VHW, KB5GL, KG4O, KG6I, KH6HBZ, KJ6RQ, KK6H, KM9J, KN4FY, KQ3S, NØABA, N1HRW, N1QY, N2EJQ, N2GLH, N2MAU, N4UU, NV8N, NX1G, VE1RJ, VE1YX, WØJRN, WØRXL, W1BFT, W1FV, W1KNT, W4PSJ, W4VQ, W5IJU, W6HF, W6JOX, W6UQF, W6WKE, W8CT, W9DH, W9HAO, W9NTU, W9RXJ, WB8ZRL, WO6R, WU6T, WW7Q, Thanks a lot! -chod.

Resident Amateurs on Regularly

DXCC Country	Callsign	Freq.	UTC
Albania	ZA1J	10102	2100Z
Algeria	7X2DG	28500±	14Z Mon.
Andorra	C31LL	40M CW	2245Z
Angola	D2/N6QHO	28485±	17-1900Z
Angola	D2EL	28475±	1300Z
Antarctica	VP8GAV	3502	0400Z
Chagos	VQ9AC	14026±	1700Z
European Russia	UZ4HW	1833	0400Z
Iceland	TF3CW	10103±	2300Z
Malawi	7Q7XX	7004	0230Z
Malaysia	9M2NA	14010	2320Z
Mongolia	JU83ØC	14033	0100Z
San Andrés	HJØVGJ	7002	02-0300Z
San Andrés	HJØVGJ	21026	2000Z
South Shetlands	HFØPOL	1832	0240Z

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P. O. BOX 50
FULTON CA
95439-0050 USA
(707) 523-1001

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South Africa	ZS1RL	3798	0330Z
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Uzbekistan	UI8BAA	3507	1215Z
Zimbabwe	Z21HS	7005	0345Z